

## INTERNATIONAL SEARCH REPORT

International Application No  
PCT/IB2004/051718

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 G01R35/00 G01R15/20

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 G01R

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, PAJ

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 0 877 232 A (SWITCHED RELUCTANCE DRIVES LTD) 11 November 1998 (1998-11-11) figures 2,3 column 5, line 17 - line 53 column 6, line 54 - column 7, line 1 column 7, line 54 - column 8, line 34	1-10
X	US 2002/014856 A1 (BEIJ MARCEL ET AL) 7 February 2002 (2002-02-07) paragraphs '0009!', '0010! paragraph '0012! figures 2A,2B ----- -/--	10

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

## \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
- \*E\* earlier document but published on or after the international filing date
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- \*O\* document referring to an oral disclosure, use, exhibition or other means
- \*P\* document published prior to the international filing date but later than the priority date claimed

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- \* & \* document member of the same patent family

Date of the actual completion of the international search

16 November 2004

Date of mailing of the international search report

23/11/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

Silva, João Carlos

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	PATENT ABSTRACTS OF JAPAN vol. 0143, no. 76 (P-1092), 14 August 1990 (1990-08-14) & JP 2 141673 A (MEIDENSHA CORP), 31 May 1990 (1990-05-31) abstract; figures 1,2 -----	1-10
A	PATENT ABSTRACTS OF JAPAN vol. 0165, no. 04 (P-1439), 19 October 1992 (1992-10-19) & JP 4 184267 A (FUJI ELECTRIC CO LTD), 1 July 1992 (1992-07-01) abstract; figures 1,2 -----	1-10
A	US 4 734 624 A (UCHIHASHI KIYOAKI ET AL) 29 March 1988 (1988-03-29) cited in the application the whole document -----	1,8-10

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/IB2004/051718

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 0877232	A	11-11-1998	EP 0877232 A2	11-11-1998
			US 6400131 B1	04-06-2002
US 2002014856	A1	07-02-2002	CN 1383703 T	04-12-2002
			WO 0199477 A1	27-12-2001
			EP 1297728 A1	02-04-2003
			JP 2004501499 T	15-01-2004
JP 2141673	A	31-05-1990	NONE	
JP 4184267	A	01-07-1992	NONE	
US 4734624	A	29-03-1988	JP 6101388 B	12-12-1994
			JP 62026796 A	04-02-1987
			JP 1965532 C	25-08-1995
			JP 6101389 B	12-12-1994
			JP 62026795 A	04-02-1987
			CA 1250345 A1	21-02-1989
			DE 3623306 A1	05-02-1987
			FR 2585531 A1	30-01-1987
			GB 2178607 A , B	11-02-1987